

ARM/Circular MFSA-2 Number	Rule identifier	Generalized rule content	Complete	Incomplete	Location within MSTI MFSA application
Subchapter 8 75-20-211	General requirements				
		1) Description of facility location			Volume I-A, Section 2.1
		ii) Summary of preexisting studies that have been made of the impact of the facility			Volume I-A, Section 1.8, pg. 1-31a.
		iii) Need reasonable alternate locations, comparison, statement why the proposed location is best suited for the facility.			Volume I-A
		3) Copy of Notice			Publication scheduled for week of June 30, 2008
		4) Proof of public notice			Publication scheduled for week of June 30, 2008
17.20.802	Number of copies	Hardcopy and electronic copies			10 hard copies, 10 CDs per omission request letter of 6/18/08
		Fewer copies for maps			13 full-sized map sets per omission request letter of 6/18/08
		1 copy of air photo contact prints			DVD of aerial photography, 1:24,000 scale per omission request letter of 6/18/08
17.20.803	Application format	Loose-leaf			MFSA Application is loose-leaf in 3-ring binders
		Index for cross-reference:			Cross Reference Table included in Volume I-A
		Introduction, facility description, cost, purpose/benefits, need, alternatives, siting study, environmental concerns, maps			Volumes I-A, I-B, I-C - MFSA Application; Volume II - Technical Reports; Volumes III-A, III-B - Maps; Volume IV-A, IV-B - Regional Study. All format requirements addressed.
17.20.804	Documentation	List of information sources:			Volume I-A, Chapter 7 - References
		When were field studies conducted?			Land Use (September 2007, December 2007, and June 2008); Biology (September 2007, October 2007, January 2008); Cultural Resources (June 2008)
17.20.805	Supplemental information	Substitute pages or insertions for application			Not applicable
17.20.806	Changes to an application				Not applicable
17.20.807	Amendment to application				Not applicable
17.20.810	Related projects/Single facility				Not applicable

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17.20.811	Estimated cost	1) Estimates and a description of total costs and expenses attributable to the engineering, construction, and startup of the proposed facility and associated facilities up to the time of commercial operation.			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		2) Estimates and description of total costs by category:			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		-Engineering & overhead – planning, design, QC, permitting			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		-Land acquisition			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		-Plant costs			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		-Transportation links (road costs)			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		-Mitigation costs			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		-Inventories of materials			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		-Working capital			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1, pg. 3a
		-Other costs			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		3) Estimation methods			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		4) Estimate of accuracy			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1, Appendix A-1, pg. 3a.
		5) Project costs on both sides of the border			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information
		6) Costs escalated to start of construction			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1

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17.20.815	Linear facilities estimated annual cost	1) Detailed costs of facility (capital and operating)			Volume I-B, MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1 for Project Costs, Appendix A-2 for O&M costs
		2) Construction costs escalated to start of construction.			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		3) Methods of financing construction			Volume I-B, Appendix A-2; see Appendix A-1 for escalation and AFUDC
		4) Amortization costs			Volume I-B, Appendix A-2
		5) Operational costs for years 1, 5 and 10 with annual costs by category			Volume I-B, Appendix A-2, Attachment A
		6) Design capacity and operational characteristics			Volume I-B, Appendix A-5, Attachment E for discussion of proposed line ratings and information on system studies
		7) Pipelines – transport cost			Not applicable
		8) Pipelines - design and operational characteristics			Not applicable
		9) Pipeline - costs in constant dollars for a specified year			Not applicable
		10) Methods for estimating costs			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1
		11) Estimate of accuracy			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-1, pg. 3.
17.20.817	Pricing policy	How the product will be priced			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-3
		How costs will be recovered			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-3
17.20.818	Evaluation of economic costs and benefits	Internal and external costs and benefits, including benefits to consumers, applicant, and Montana			Volume I-A - MFSA Application, Chapter 1 - Purpose, Need, and Benefits; Section 4.8; Volume II, Socioeconomics Technical Report
Subchapter 9	Explanation of need				Volume I-A - MFSA Application, Chapter 1 - Purpose, Need, and Benefits
17.20.907	Regional reliability criteria	a. Existing/desired levels of system reliability			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-4
		b. Rationale for desired level of reliability			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-4

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		c. Planning assumptions			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-4
		d. Expected frequency of interruption of service			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-4
		e. Economic evaluation of alternative levels of reliability			Volume I-B - MFSA Application, Appendix A, Engineering Cost and System Planning Information, Appendix A-4
17.20.920	Explanation of need:	Based on information from at least one of the following four rules: VOLUME I-B, Appendix A			
17.20.921	Transient stability considerations	1) Normal or contingent operating conditions where problem exists			Not applicable; transient stability not a basis for project need
		2) Two stability studies showing problem and solution			Not applicable; transient stability not a basis for project need
17.20.922	Power transfer capacity/voltage drop	1) a. Normal and emergency thermal ratings and effect on power flows			Volume I-B, Appendix A-5
		b. ID of standard power factor and voltage drop limit			Volume I-B, Appendix A-5
		c. ID of acceptable voltage drop/power factor for contingency			Volume I-B, Appendix A-5
		d. Applicable voltage drop standards			Volume I-B, Appendix A-5
		e. Minimum of 3 load flow studies w/assumptions...			Volume I-B, Appendix A-5
		f. 10-yr load growth in area to be served			Volume I-B, Appendix A-5
17.20.923	Reliability of service	1) Cross-reference to .922 e) and f)			Not Applicable; reliability of service not a basis for need
		2) Planning assumptions and rationale for desired level of reliability			Not Applicable; reliability of service not a basis for need
		3) Line outage data for up to 10 yrs by duration, location, cause, load lost, customers affected			Not Applicable; reliability of service not a basis for need
	Economy considerations	1) System costs for 10 years w & w/o line			Volume I-B, Appendix A-7
		2) Analysis of markets...			Volume I-B, Appendix A-7

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		3) Analysis of sources and prices for purchased power			Volume I-B, Appendix A-7
		4) Demand and price for wheeling services			Volume I-B, Appendix A-7
		5) Other analysis that shows need/financial viability			Volume I-B, Appendix A-7
		6) Relationship of capacity to projected flow			Volume I-B, Appendix A-7
		7) Why proposed facility is preferred to use of existing capacity			Volume I-B, Appendix A-7
17.20.928	Other linear facilities - need explanation				Not Applicable
17.20.929	Interconnection agreements	1) Copy of any and all agreements or description of obligations, parties, time period, terms, financial agreements			Volume I-B, Appendix A-8
		2) Current and planned negotiations, parties, status			Volume I-B, Appendix A-8
Subchapter 13	Evaluation of Alternatives				
17.20.1304		1) Comparison of nature and economics of relevant alternatives, including no action			Volume I-A - MFSA Application; Section 2.2, Alternatives Considered But Eliminated; Section 2.3.1, No Action; Section 2.7, Alternative Route Identification and Evaluation
		2) Transmission alternatives			Volume I-A - MFSA Application; Section 2.7, Alternative Route Identification and Evaluation; Volumes IV-A, IV-B - Regional Study
		3) Alternative energy res.– onsite generation			Volume I-A, Section 2.2.3, Non-Transmission Alternatives
		4) Alternative transmission techniques - underground.			Volume I-A, Section 2.2.1, Alternative Transmission Technologies; Section 2.2.2, Underground Construction
		5) Alternative levels of reliability			Not Applicable; reliability of service not a basis for need
		6) Curtailable loads-non-construction alternatives			Volume I-A, Section 2.2.3.3, pg. 2-7a.
		7) No action alternative - Proposed line would not be built.			Volume I-A, Section 2.3.1, No Action

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17.20.1305	Criteria for evaluation	1) Description of applicant's methods			Volume I-A, Section 2.7 Alternative Route Identification and Evaluation; Volume I-C, Appendix F; Volume IV-A, Regional Study
		2) Ranking of all relevant alternatives by leveled annual cost, performance, system and environmental impacts.			Volume I-A, Section 2.7, Table 2-5, pg 2-73b ; Volume I-B, Appendix A-1, Estimated Facility Cost, Appendix A-2, Estimated Annual Cost, .
17.20.1426	General Requirements	Refers to MFSA Circular-2: See Section 3.0			
Circular MFSA-2 Section 3.0		1) Alternative siting study and baseline study as specified			Volumes IV-A, IV-B, Regional Study and Maps; Volume II, Technical Reports; Volume I-A, Section 2.7, Alternative Route Identification
		2) a. Study area delineation			Volumes IV-A, IV-B, Regional Study and Maps
		b. Overview survey			Volumes IV-A, IV-B; Volumes III-A, III-B; Volume II
		c. Selection of alternative locations			Volume I-A, Section 2.7, Alternative Route Identification and Evaluation; Volumes III-A, III-B, Maps
		d. Baseline study & impact assessment			Volumes IV-A, IV-B, Regional Study and Maps; Volumes III-A, III-B, Maps; Volume II, Technical Reports; Volume I-A
		e. Comparison of alternatives			Volume I-A, Section 2.7.4, Comparison of Alternatives
		f. Selection of preferred location			Volume I-A, Section 2.7.5, Identification of Preferred Route
		3) Alternative locations			Volume IV-A - Regional Study; Volume IV-B - Maps; Volume I-A, Section 2.7
		4) Summary of consultations with government agencies			Volume I-A, Chapter 5, Consultation and Coordination; Volume I-C, Appendix B, pg. B-1a, Appendix C, pg. C-1a , Appendix G, Public and Agency Scoping Summary Report
		5) Valid and useful studies			Volume I-B, Engineering, Cost, and System Planning; Volume IV, Regional Study
Circular MFSA-2 Section 3.1	Preferred location criteria	1) Greatest potential for local acceptance			Volumes I-A, Chapter 2, Section 2.7, pgs. 2-58a - 2-58c ; I-C
		2) Parallel existing corridors			Volumes I-A, I-C
		3) Non-residential areas			Volumes I-A, I-C
		4) Rangeland / non-irrigated			Volumes I-A, I-C
		5) Logged forest			Volumes I-A, I-C
		6) Geologically stable; non-erosive soils; flat area			Volumes I-A, I-C
		7) Roaded areas			Volumes I-A, I-C

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		8) Not in floodplains			Volumes I-A, I-C
		9) Least visual impact			Volumes I-A, I-C
		10) Safe distance from residences			Volumes I-A, I-C
		11) In accordance with public land management plans			Volumes I-A, I-C
Circular MFSA-2 Section 3.2	Delineation of study area	1) a. Endpoints			Volumes IV-A, IV-B; Volume I-A; Volumes III-A, III-B
		b. Endpoints outside Montana			Volumes IV-A, IV-B; Volume I-A; Volumes III-A, III-B
		c. Area between endpoints			Volumes IV-A, IV-B; Volume I-A; Volumes III-A, III-B
		d. Avoidance areas			Not Applicable; Preferred Route and alternatives avoid specified areas
		(i) National wilderness areas			Volumes IV-A, IV-B - Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps
		(ii) National primitive areas			Volumes IV-A, IV-B - Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps
		(iii) National wildlife refuge			Volumes IV-A, IV-B - Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps
		(iv) State wildlife management areas and wildlife habitat protection areas			Volumes IV-A, IV-B - Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps
		(v) National parks and monuments			Volumes IV-A, IV-B - Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps
		(vi) State parks			Volumes IV-A, IV-B - Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps
		(vii) National recreation areas			Volume I-B, Land Use Technical Report, pg. 77; Volumes IV-A, IV-B - Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps.
		(viii) Wild and scenic rivers, corridors, and eligible rivers			Volumes IV-A, IV-B, Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps; There are no wild and scenic river designations in study area. Portions of the Boulder, Big Hole, Beaverhead, and Red Rock Rivers could be eligible.
		(ix) Managed roadless areas greater than 5,000 acres			Volumes IV-A, IV-B - Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps
		(x) Rugged topography greater than 30% slope			Volumes IV-A, IV-B - Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps
		(xi) Specially managed buffer areas			Volume I-A, pg. 3-71a; Volumes IV-A, IV-B - Regional Study and Maps, Chapter 3 and Exhibit 1; Volumes III-A, III-B - Maps

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		e. Pipeline information			Not Applicable
		f. Permission to cross wilderness or primitive areas			Not Applicable, Does not cross referenced areas
		2) a. Avoidance areas			Volumes IV-A; IV-B and Maps
		b. Preferred location criteria			Volumes IV-A; IV-B, Regional Study, Chapter 2, pg. 2-2a and Maps; Volume I-A
		c. Cost			Volume I-A,, Section 4.8, Socioeconomics; Volume I-B, Regional Study, Chapter 2, pg. 2-2a , Appendix A, Engineering, Cost, and System Planning.
		d. Reliability and engineering concerns			Volume I-A, Section 2.5, Construction, Operation, and Maintenance; Volume I-B, Engineering, Cost and Systems Planning Information
		e. Other factors important to applicant			Volume I-B; Volume IV-A - Regional Study
		3) Base map and electronic submittal			Volume IV-B - Regional Study Maps; Volume III-A, III-B - Maps; DVDs of maps provided
Circular MFSA-2 Section 3.3	General requirements of overview surveys	4) Explanation of methods			Volume IV-A - Regional Study
		1) Overview Survey			Volume IV-A - Regional Study; Volume I-A, MFSA Application
		2) Public Meetings			Volume I-A, Chapter 5, Consultation and Coordination; Volume I-C, Appendix G, Public and Agency Scoping Summary Report
		3) Base maps:			
		Mylar overlays:			Omission requested in letter to MDEQ on 6/18/08
		Electronic equivalent acceptable to the department.			DVDs of maps provided
		4) Alternative location selection			Volume I-A, Volumes III-A, III-B
		6) Any areas listed in 3.2 (1)(d) or 3.4 considered in selection of alternative locations.			Volume I-A, Volumes III-A, III-B
		7) Factors used to determine alternative locations			Volume I-A, Section 2.7, pg. 2-58a - 2-58c. ; Volume IV-A - Regional Study .
		8) Delineation of alternative locations to within 40 feet			Volumes III-A, III-B - Maps. Full-sized 1:100,000 map sets and DVDs of maps provided
Circular MFSA-2 Section 3.4	Environmental information for	9) Rationale			Volume I V-A, Regional Study, Section 2.8, pg. 2-23a, 2-23b Alternative Route Identification
		1) Any avoidance areas from 3.2 above			Volume IV-A - Regional Study, Section 3.2; Volume IV-B - Maps

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(BASE MAPPING)	overview survey	a. Items from 3.2 (1)(d). (avoidance area mapping)			Volume III-B, 100K Map Series: Parks, Recreation, and Preservation Areas
		b. State and federal waterfowl production areas			Volume IV-B, Exhibit 6.
		c. National natural landmarks, areas of critical environmental concern, special interests areas, research botanical areas, outstanding natural areas			Volume III-B, 100K Map Series: Parks, Recreation, and Preservation Areas
		d. Critical habitat			Volume III-A, 400K Map Series: Bighorn sheep habitat, elk habitat, moose habitat, mule deer habitat, pronghorn habitat; III-B, 100k Map Series: habitat assessment and animal movement corridors, sage grouse and pygmy rabbit habitat, special status wildlife and plants of concern. There is no federal designated habitat in the project area.
		e. Habitats of listed Threatened & Endangered species occupied seasonally			Volume III-B, 100k Map Series: sage grouse and pygmy rabbit habitat, special status wildlife and plants of concern; Volume IV - Regional Study, Section 2.4.4, pg. 2-9.
		f. National historic landmarks, National register districts			Cultural Resources Map Book, 1:24,000. On File MDEQ, Not for Public Release
		g. National register historic districts and sites nominated to or designated by SHPO			Cultural Resources Map Book, 1:24,000. On File MDEQ, Not for Public Release
		h. Municipal watersheds			Volume III-B, 100k Map Series: Water Resources; Volume II, Water Resources and Wetlands Technical Report
		i. Streams and rivers listed in Montana Department of Fish, Wildlife, and Parks (FWP) rivers database as being Class 1 or 2 streams or rivers			Volume III-B, 100k Map Series: Water Resources; Volume II, Water Resources and Wetlands Technical Report
		j. Streams listed by DEQ pursuant to 75-5-702, MCA that are not attaining beneficial uses of water			Volume III-B. 100k Map Series: Water Resources; Volume II, Water Resources and Wetlands Technical Report, Appendix A, Tables A1 and A2.

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		k. Highly erodible soils and areas with severe reclamation constraints			Volume III-B, 100k Map Series: Soil Erodibility, Reclamation/Revegetation Potential, Engineering Geology; Volume II, Geology and Soils Technical Report
		l. Incompatible with published visual management plans			Volume III-B, 100k Map Series: Scenic quality, Sensitive View; Volume II, Visual Resources Technical Report
		m. Winter distribution of elk, deer, moose...			Volume III-A, 400K Map Series: Bighorn sheep habitat, elk habitat, moose habitat, mule deer habitat, pronghorn habitat,
		n. Major elk summer security areas			Volume III-A, 400K Map Series: elk habitat, moose habitat
		o. Seasonally occupied mountain sheep and mountain goat habitats			Volume III-A, 400K Map Series: elk habitat, moose habitat
		p. Sage and sharp-tailed grouse leks and winter habitats			Volume III-B, 100k Map Series: sage grouse and pygmy rabbit habitat; Volume IV-B, Exhibit 6 and Supplemental Exhibit 6a.
		q. High waterfowl densities (prime waterfowl habitat)			Volume II, Biological Resources Technical Report, data impact table CD; Volume IV-B, Exhibit 6.
		r. Undeveloped land or water areas with natural features of unusual scientific...			Volume III-B, 100k Map Series: Parks, Recreation and Preservation Areas; Volume II, Land Use Technical Report; There are no undeveloped land or water areas with natural features of unusual scientific, educational or recreational significance within the MSTI study area.
		s. Geologic units of formations with a high probability of including paleontological resources			Volume I-A, Paleontological Technical Report, pgs. 12-16; Volume III-B, 100K Map Series: Engineering Geology
		t. Sites that have religious or heritage significance to Native Americans			Consultation letters sent to tribes in June 2008. Responses will be forwarded to MDEQ.
		u. Standing water bodies			Volume III-A, 400K Map Series: Base map data
		v. Surface supplies of potable water			Volume III-A, 100K Map Series: Water Resources; Volume II, Water Resources Technical Report, pg 29a and Appendix D.
		w. Active faults near substations, switchyards, or terminus points			Volume III, 100K Map Series; Engineering Geology
		2) Pipeline information			Not applicable
		3) Overlays of land use and land cover with 20-acre resolution.			
		a. Cities & towns/incorporated communities			Volume I, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series, Existing and Planned Land Use

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		b. Developed areas adjoining communities			Volume I, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series, Existing and Planned Land Use
		c. Designated residential growth areas			Volume I, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series, Existing and Planned Land Use
		d. Federal and state highways and county roads			Volume I, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series, Existing and Planned Land Use
		e. Railroads and ROW's			Volume I, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series, Existing and Planned Land Use
		f. Transmission lines 50kV and greater			Volume I, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series, Existing and Planned Land Use
		g. Non-timbered grassland or rangeland			Volume III-B, 100k Map Series; habitat assessment and animal movement corridors
		h. Forested lands			Volume III-B, 100k Map Series; habitat assessment and animal movement corridors
		i. Communication facilities			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III, 100K Map Series: Existing and Planned Land Use
		j. Military installations			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III, 100K Map Series: Existing and Planned Land Use
		k. Land areas covered by conservation easements			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.3.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Parks, Recreation, and Preservation Areas
		l. Public and private airports and airfields			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		m. National trails			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.3.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Parks, Recreation, and Preservation Areas
		n. Cropland			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use

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		o. Prime and unique farmland and orchards			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		p. Permitted mines			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.5.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Energy and Minerals
		4) a. Public lands			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		b. Tribal and reservation lands			Volume III-A, 400K Map Series: Land Jurisdiction and Special Management Areas
		5) Slope categories			Volume III-B, 100K Map Series: Engineering Geology
		6) Population estimates			Volume II, Socioeconomics Technical Report; Land Use Technical Report
		7) Social characteristics			
		a. relationship of current land uses to economic and social activities			Volume II, Socioeconomics Technical Report; Land Use Technical Report
		b. existing land use plans and other local legal restrictions affecting land uses			Volume II, Land Use Technical Report; Volume I-A, Section 3.6, Land Use and Transportation
		c. population and demographic characteristics			Volume II, Socioeconomics Technical Report; Land Use Technical Report
		d. social structures, values, and lifestyles and identification of sub-groups that may be differently affected			Volume II, Socioeconomics Technical Report; Land Use Technical Report; Volume I-C, Appendix G, Public and Agency Scoping Summary Report; Volume I-A, Sections 3.9, 4.9, Environmental Justice
		e. local economy, income characteristics, labor force participation, availability of skilled and semi-skilled labor, prevailing wages, and employment and unemployment rates.			Volume II, Socioeconomics Technical Report; Volume I-A, Sections 3.8, 4.8, Socioeconomics
		f. availability, adequacy, capacity, and costs of public services, including roads, education, health, social, public safety, and sanitary services.			Volume II, Socioeconomics Technical Report, pgs. 123, 125, 128, 129.

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		g. fiscal characteristics of local government and school districts, including descriptions of revenue and expenditures			Volume II, Socioeconomics Technical Report, pgs. 123, 125, 128, 129.
		h. availability, adequacy, and capacity of housing and private sector health services			Volume II, Socioeconomics Technical Report, pgs. 123, 125, 128, 129.
		8) Nature and magnitude of public concerns			Volume I-A, Chapter 5.0 Consultation and Coordination; Volume I-C, Appendix G, Public and Agency Scoping Summary Report
		9) Landscape aesthetics			
		a. Description of study area landscape, physiographic provinces, landscape character, scenic integrity			Volume II, Visual Resources Technical Report, Section 4.1
		b. Existing landscape inventory maps			Volume III-B, 100k Map Series: Scenic Quality, Sensitive Views
		c. Overlay of land areas categorized for visual quality			Volume III-B, 100k Map Series: Scenic Quality, Sensitive Views; Volume IV-A, Siting Study, pg. 2-15a.
		d. Overlay of land areas categorized for visual compatibility			Volume III-B, 100k Map Series: Scenic Quality, Sensitive Views; Volume IV-A, Siting Study, pg. 2-15a.
		10) Overview of history and prehistory of study area			Volume II, Cultural Resources Technical Report, Section 3.2.2.1 and 3.2.2.2
		a. State and federal agency file search results.			Volume II, Cultural Resources Technical Report, Section 4.1, Appendix A Tables 1-4
		b. Summary of existing databases			Volume II, Cultural Resources Technical Report, Section 4.1.1
		c. Sites likely to be encountered			Volume II, Cultural Resources Technical Report, Section 4.1.2, Appendix A, Tables 3 and 4, Cultural Resource Map Book, On File MDEQ, Not for Public Release
		d. Map showing location of previous survey work			Cultural Resource Map Book, 1:24,000. On File MDEQ, Not for Public Release.
		1) Alternative locations-Select at least three			Volume I-A, MFSA Application, Section 2.7.3, pg. 2-64a.
Circular MFSA-2 Section 3.5	Selection of alternative locations	a. Preferred location criteria			Volume I-A, MFSA Application, Section 2.7.5, pg. 2-64a.

ARM/Circular MFSA-2 Number	Rule identifier	Generalized rule content	Complete	Incomplete	Location within MSTI MFSA application
		b. Incorporation of environmental information required by 3.2 (1)(d) and Section 3.4			Volume 1-A, Section 2.7, Alternative Route Identification and Evaluation, pg. 2-64b ; Volume IV-A - Regional Study
		c. Pipelines			Not Applicable
		d. Cost, reliability, and engineering concerns			Volume I-B, Appendix A
		e. Other factors important to applicant			Volume I-A, Section 2.7
		2) Explanation of methods			Volume I-A, Section 2.7, pg. 2-64a-d+F292.
Circular MFSA-2 Section 3.6	Baseline study general requirements	1) Baseline study			
		2) Mapping of alternative facility locations must be within 40 feet			Volume I-A, Chapter 2; Volumes III-A, III-B - Maps
		3) Baseline data mapping			Volumes III-A, III-B - Maps
		4) Air photos within the last 5 years			DVD of aerial photography provided photography in Montana NRIS - 2005
		5) Information to determine compliance with water quality permits			Volume II, Water Resources Technical Report; 318 permit application and supporting information submitted as part of MFSA Application
		6) Tabulation of the amount, type, and/or linear miles of areas mapped in Section 3.7 and 3.8			Volume II - Technical Reports, Impact Data Tables CD
		7) Identify and discuss mitigation to reduce or eliminate significant impacts along each alternative including:			Volume I-C, Appendix B, Environmental Protection Measures, Appendix C, Specifically Recommended Mitigation Measures.
		a. Alternative construction methods and equipment			Volume I-A, Section 2.5.1, pg 2-33a.
		b. Reclamation and maintenance methods			Volume I-A, Section 2.5, subsection Site Reclamation, Section 2.5.1.2, Operations and Maintenance
		c. Localized location adjustments			Volume III-B, Butte Aerial Detail Map
		d. Seasonal timing of construction			Volume I-C, Appendix B, Environmental Protection Measures, Appendix C, Specifically Recommended Mitigation Measures. Volume II, Technical Reports; Volume II, Biological Resources Technical Report
		e. Alternative design and materials			Volume I-A, Section 2.3.2.1, Transmission Line Specifications

ARM/Circular MFSA-2 Number	Rule identifier	Generalized rule content	Complete	Incomplete	Location within MSTI MFSA application
		f. Alternative methods of crossing streams			Volume I-A, Section 2.5.1, pg 2-34a.
Circular MFSA-2 Section 3.7		1) Baseline data and assessment of impacts, general and site specific mitigation			Volume I-C, Appendix B, Environmental Protection Measures, Appendix C, Specifically Recommended Mitigation Measures.
		2) Overlay of land use information			
		a) Cities, towns, residential clusters, unincorporated areas			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		b) Developed residential, industrial, and commercial areas			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		c) Designated residential growth areas			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		d) Roads and highways			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		e) Railroads and ROW's			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		f) Transmission lines 50 kV and larger			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		g) Grassland rangeland			Volume I-A, Section 3.5; Volume II, Biological Resources Technical Report, Section 3.2, Impact Data Tables CD; Volume III-B, 100K Map Series: Habitat Assessment and Wildlife Movement Corridors
		h) Forested			Volume I-A, Section 3.5; Volume II, Biological Resources Technical Report, Section 3.2, Impact Data Tables CD; Volume III-B, 100K Map Series: Habitat Assessment and Wildlife Movement Corridors
		i) Communication infrastructure			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		j) Military installations			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use

ARM/Circular MFSA-2 Number	Rule identifier	Generalized rule content	Complete	Incomplete	Location within MSTI MFSA application
		k) Agency conservation easements			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.3.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Parks, Recreation, and Preservation Areas
		l) Airports and airstrips			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		m) National trails			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.3.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Parks, Recreation, and Preservation Areas
		n) Cropland (dry, irrigated, mechanically irrigated)			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		o) Prime or unique farmlands or orchards			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		p) Permitted mines			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.5.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Energy and Minerals
		q. Platted subdivisions			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		r. Major public buildings			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		s. Pipelines 8 inches or greater			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III-B, 100K Map Series: Existing and Planned Land Use
		t. Schools			Volume I, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III, 100K Map Series, Existing and Planned Land Use
		u. Ag. Experiment stations			Volume I, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III, 100K Map Series, Existing and Planned Land Use

ARM/Circular MFSA-2 Number	Rule identifier	Generalized rule content	Complete	Incomplete	Location within MSTI MFSA application
		v. Individual residences			Volume I, Section 3.6.3, Volume II, Land Use Technical Report, Section 4.2.1, Impact Data Tables CD; Volume III, 100K Map Series, Existing and Planned Land Use
		3) Construction crew size, skill and wage levels			Volume II, Socioeconomics Technical Report
		4) Assessment of impacts on agricultural, residential, commercial, industrial, mining, and public land uses			Volume I-A, Section 4.6.3; Volume II, Land Use Technical Report, Sections 5.1, 5.2, 5.3, 5.4 and 6.0
		5) Social impacts			Volume II, Socioeconomics Technical Report
		6) Public attitudes and concerns			Volume I-A, Chapter 5.0; Volume I-C, Appendix G, Public and Agency Scoping Summary Report
		7) Access roads			
		a. A discussion of access across areas listed in Circular MFSA-2 Section 3.2 (1)(d) and Section 3.4(1)			Volume I-A, Table 2-1, Electrical Design Characteristic, Section 2.5, Subsection Access Road Construction; I-C, Appendix D, Construction and Ground Disturbance Assumptions
		b. An assessment of impacts to areas identified in (a) and in response to Circular MFSA-2 Sections (3.7) (2) through (6) and (3.7) (8) through (19) and cross-referenced			Volume I-A, Chapter 4, Environmental Consequences; Volume II, Technical Reports
		8) Earth resource impacts. ...an estimate of the mileage of each alternative location and associated access roads crossing each category of mapped information requested below			Volume I-A, Section 4.4, Geology and Soils; Volume II, Geology and Soils Technical Report
		a. Overlay of wind and water erosion risk and a discussion of impacts considering soil characteristics, slope, predicted amount of disturbance and climatic conditions			Volume I-A, Section 4.4, Geology and Soils; Volume II, Geology and Soils Technical Report; Volume III, Maps

ARM/Circular MFSA-2 Number	Rule identifier	Generalized rule content	Complete	Incomplete	Location within MSTI MFSA application
		b. Overlay and discussion of mass movement potential			Volume I-A, Section 4.4, Geology and Soils; Volume II, Geology and Soils Technical Report; Volume III, Maps
		c. Overlay and discussion of constraints to reclamation and revegetation			Volume I-A, Section 4.4, Geology and Soils; Volume II, Geology and Soils Technical Report; Volume III, Maps
		9) Engineering of the facility in each alternative location			
		a. Location differences relating to the feasibility of expanding the transmission capacity through multiple circuiting or design modifications, ROW width			Volume I-A, Section 4.11, various cases for double circuiting
		b. Alternative structure types and technologies			Volume I-A, Section 2.3.2.1, Transmission Line Specification, subsection Structures and Foundations; Figures 2-1, 2-2, Typical 500kV Structure Types
		c. Poor or seasonally restricted areas - p.153			Volume I-A, Chapter 2, Transmission Line Construction, Schedule, and Workforce
		d. Compatibility or interference with transmission, transportation or communication facilities...p.125			Volume I-A, Section 4.11, EMF, Audible Noise, Corona, and Radio/TV Interference
		e. Discussion and supporting documentation of problems or concerns associated with crossing highways or encroachment on highway ROWs through consultation with the Montana Department of Transportation (MDT). p.124			Volume I-A, Section 4.6, pg. 4-40a , Land Use and Transportation; Volume II, Land Use Technical Report
		f. Floodplains...p.43			Volume I-A, Water Resources and Wetlands, Chapter 3, pg. 3-46a, Chapter 4, pg. 4-22a; Volume I-C, Appendix C, pg. C-2a ; Volume II, Water Resources Technical Report, pgs. 20a, 34a, 38a.

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		g. Aeronautical hazards for each alternative and mitigating measures determined through consultation with MDT and the Federal Aviation Administration (FAA)			Volume I-A, Section 4.6; Volume II, Land Use Technical Report
		10) Visual resource and viewer information			
		a. Scenic quality overlay			Volume III-B, 100K Map Series: Scenic Quality; Volume IV-A, Siting
		b. Visual contrast overlay			Volume II, Impact Data Tables CD; Visual Resources Technical Report, Appendix C, Table 1; Volume III-B, 100k Map Series: Scenic Quality; Volume IV-A, Siting Study, pg. 2-15a.
		c. Tabulation of classes of scenic quality			Volume I-A, Section 3.2.3, Table 3.7-1; Volume II, Visual Resources Technical Report, Section 4.2, Table 4.2-1; Volume II, Impact Data Tables CD
		d. Explanation of any difference with FS visual inventory maps			Volume II, Visual Resources Technical Report, Section 3.1
		e. Identification of key observation points			Volume II, Visual Resource Technical Report, Appendix D and Appendix E; Volume III-B, 100K Map Series: Scenic Views
		f. Viewer characteristics			Volume II, Visual Resource Technical Report, Sections 3.1.4, 3.1.5, 4.3, and 4.4, Appendix A, Table A-8
		g. Photographs from observation points			Volume II, Visual Resource Technical Report, Section 5.3 and Appendix D
		h. Viewsheds for key observation points			Volume III-B, 100K Map Series: Scenic Views
		11) Assessment of visual resource impacts			Volume I-A, Section 4.7, Visual Resources; Volume II, Visual Resource Technical Report, Section 6.0 and Appendix C; Impact Data Tables CD
		12) Description of existing biological resources and an assessment of impacts to these resources for each alternative and access roads...			Volume I-A, Sections 3.2.3, 4.2, pg. 4-10a ; Volume II, Biological Technical Report, Section 4.1, 4.2, 5.1, and 6.0.

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		a. A list of species and habitats of greatest susceptibility to project-related impacts and an explanation of rationale used to create the list.			Volume II, Biological Resources Technical Report, pgs. 9 and 10, Section 4.1.4, pg. 18a; Section 4.2.3, pg. 64a ; Appendix B and C, Tables 4.1-1, 4.2-1 , 4.3-1.
		b. An evaluation of impacts to each species or habitat listed in (a) including:			
		(i) National wildlife refuges and ranges			Volume I-A, Section 4.2; Volume II Biological Technical Report, Section 5 and 6. Volume III, 400K Map Series Base map for alternatives, data impact table cd
		(ii) State wildlife management areas and wildlife habitat protection areas			Volume I-A, Section 4.2, pg. 4-10a ; Volume II, Biological Technical Report, Sections 5 and 6, data impact table CD; Volume III-A, 400K Map Series: Base map for alternatives.
		(iii) National recreation areas			Volume I-A, Section 4.2; Volume II, Biological Technical Report, Sections 5 and 6, data impact table CD; Volume III-A, 400K Map Series: Base map for alternatives.
		(vi) Corridors of rivers in the National			Volume I-A, Section 4.2, pg. 4-12a.
		(vii) Managed roadless areas greater than 5,000 acres in size			Volume I-A, Section 4.2, pg. 4-10b.
		(ix) Unique habitats and natural areas designated by the National Park Services, USDA Forest Service, BLM, or the State of Montana as national natural landmarks, natural areas, research natural areas, areas of critical environmental concerns, special interest areas, research botanical areas, or outstanding natural areas			Volume I-A, Section 4.2, pg. 4-10b ; Volume II, Biological Technical Report, Sections 5 and 6, data impact table CD; Volume III-A, 400K Map Series: Base map for alternatives,
		(x) Designated critical habitat for Threatened and Endangered species			Not Applicable; There is no designated critical habitat in the project area.
		(xi) Streams and rivers listed as having fisheries value class of I or II by FWP			Volume II, Water Resources and Wetlands Technical Report, section 4.3.4.1 and Appendix C

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		(xii) Agricultural experiment stations			Volume I-A, Sections 4.2, 4.6; Volume II Biological Resources Technical Report, Section 5 and 6, Land Use Technical Report, data impact table CD; Volume III-A, 400K Map Series Base map for alternatives
		(xiii) Habitats occupied at least seasonally by resident state or federally listed threatened or endangered species.			Volume I-A pgs. 4-12 through 4-19; Volume I-B, Biological Resources Technical Report, pgs. 9, 10, 18, 64, Tables 4.1-1 and 4.21-, Appendix C; Volume III-A, 400K Map Series: Bighorn sheep habitat, elk habitat, moose habitat, mule deer habitat, pronghorn habitat.
		(xiv) Specially managed buffer areas around wilderness			Volume III-A, 400K Map Series: elk habitat, moose habitat
		(xv) Winter distribution of elk, deer, moose, pronghorn, mountain goat, and bighorn sheep, and areas where they concentrate during severe winters based on consultation...			Volume III-A, 400K Map Series: Bighorn sheep habitat, elk habitat, moose habitat, mule deer habitat, pronghorn habitat,
		(xvi) Major elk summer security areas			Volume III-A, 400K Map Series: elk habitat, data impact table CD
		(xvii) Mountain goat and mountain sheep seasonal habitat			Volume I-A, Section 4.2, Volume II, Biological Technical Report, data impact table CD, Volume III-A, 400K Map Series: Bighorn sheep habitat.
		(xviii) Sage and sharp-tailed grouse leks and winter distribution			Volume I-A, Section 4.2; Volume II, data impact table CD; Volume III-B, 100K Map Series: sage grouse and pygmy rabbit.
		(xix) High waterfowl population densities			Volume I-A, Table 3.2-11 (pg. 3-29), Section 4.2 (pg.4-3), Volume II, Biological Technical Report, data impact table CD, Volume III-A, 400K Map Series: alternatives base map.
		(xx) Any undeveloped land or water areas that contain known natural features of unusual scientific educational or recreational significance			Volume I-A, Section 4.6, pg. 4-10b ; Volume II, Land Use Technical Report.
		(xxi) Mature riparian forests p. 47			Volume I-A, Section 4.2, Volume III-B, 100K Map Series: habitat assessment; Volume II, data impact table CD.
		(xxii) Nesting colonies			Volume I-A, Section 4.2; Volume III-B, 100K Map Series: special status wildlife; Volume II, data impact table CD.

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		(xviii) Habitats occupied at least seasonally and critical to species listed as “species of special concern or interest” by the FWP, or species listed or considered candidates for listing by the U.S. Fish and Wildlife service as threatened or endangered.			Volume I-A, Tables 3.2-6 through 3.2-10 (pgs.3-25 through 3-28), Section 4.2 (pgs. 4-12 through 4-19); Volume II, Biological Resources Technical Report, Section 5 and 6, data impact table CD. Volume III-B, 100K Map Series: special status wildlife.
		(xix) Locations of known nests of raptorial birds within ½ mile of alternative facility locations.			Volume III-B, 100k Map Series: Special Status Wildlife.
		c. A general assessment of impacts from hunting and fishing pressure if increased access to secure habitats would likely occur in the general vicinity of each alternative line location because new access roads would be constructed outside the impact zone described in (a).			Volume I-A, Section 4.6.3; Volume II, Biological Resources Technical Report, pg. 79a , Sections 5.4 and 6.0.
		d. A description of the method used to evaluate impacts to wildlife, fisheries, and vegetation.			Volume I-A, Section 4.2; Volume II, Biological Resources Technical Report, Section 5.0.
		e. For impacts described in (b) and (c), a description of mitigating measures that could be implemented to reduce significant impacts and the cost of such measures.			Volume I-C, Appendix B, Environmental Protection Measures, Appendix C, Specific Mitigation Measures.
		f. Documentation that agencies with management responsibility for any affected biological resources have been consulted concerning impacts and mitigation and a description and evaluation of the mitigation measures suggested by these agencies.			Volume II, Biological Resources Technical Report, Appendix A. Volume I-C, Appendix B, pg. B-1a, Appendix C, pg. C-1a.

ARM/Circular MFSA-2 Number	Rule identifier	Generalized rule content	Complete	Incomplete	Location within MSTI MFSA application
		13) Cultural, historical, and paleontological data			
		a. Results of an on-the-ground survey and documentation			Omission letter to MDEQ regarding use of helicopter reconnaissance rather than on-the-ground survey.
		b. Consultation with State Historic Preservation Office (SHPO) relative to eligibility for listing on the national register			Volume I-A, Sections 3.10, 4.10 Cultural Resources; Volume II, Cultural Resources Technical Report.
		14) Assessment of impacts to cultural, historical, and paleontological resources.			Volume II, Cultural Resources Technical Report, Section 6.1; Paleontological Resources Technical Report, Section 6.1.
		a. For each of the following potentially affected cultural resource properties or sites and for any properties or sites identified by (13)(b) which may be eligible for listing on the national register, a discussion of whether the facility would affect the qualities for which these sites or properties were listed or could be listed:			
		(i) National historic landmarks, and national register historic districts and sites;			Volume I-A, MFSA Application, Section 4.10.3.
		(ii) National register historic districts and sites nominated to or designated by SHPO;			Volume I-A, MFSA Application, Section 4.10.3.
		b. A discussion of whether the proposed facility would affect the qualities of:			
		(i) Areas with geologic units or formations that show a high probability of including significant paleontological resources; and			Volume II, Paleontological Resources Technical Report, Section 5.2
		(ii) Sites that have, or may have, religious or heritage significance and value to Native Americans as identified by Section 3.4(1)(t).			Consultation letters sent to tribes in June 2008. Responses will be forwarded to MDEQ.

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		c. Identification of special construction methods and topographic screening that could eliminate or reduce impacts, and a discussion of the likelihood of success of each measure in reducing impact.			Volume 1-A, MFSA Application, Section 4.10.3, pg. 4-123a and 4-123b.
		d. Documentation that consultation has occurred with SHPO, affected state and federal agencies, and tribes regarding any affected cultural sites, impacts, and mitigation.			Volume II, Cultural Resources Technical Report; Consultation letters sent to tribes in June 2008. Responses will be forwarded to MDEQ.
		15) Baseline data for recreation areas and sites			
		a. Maps depicting recreation areas and sites.			Volume III-B, 100K Map Series: Parks, Recreation, and Preservation Areas.
		b. Description of each site or area, how area is used, and use level estimates			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.3.1.
		c. List of possible recreation areas & sites			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.3.1, Impact Data Tables CD.
		16) Assessment of impacts on recreation areas and sites			
		a. Change in access			Volume I-A, Section 4.6.3; Volume II, Land Use Technical Report, Sections 5.4 and 6.0
		b. Aesthetic impacts on sites			Volume I-A, Section 4.7; Volume II, Visual Resources Technical Report
		c. Location of facility relative to site			Volume I, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.3.1, Impact Data Tables CD, 100K Map Series, Parks, Recreation, and Preservation Areas
		d. Description of how activities and experiences could change			Volume I-A, Section 4.6.3; Volume II, Land Use Technical Report, Sections 5.4 and 6.0
		e. Description of regional supply of recreational opportunities for affected sites.			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.3.1
		f. Documentation of consultation			Volume I-A, Section 3.6.3; Volume II, Land Use Technical Report, Section 4.3.1, Section 7.0; Volume I-C, Appendix B, pg. B-1a, Appendix C, pg. C-1a.

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		17) Overlay showing names of perennial streams crossed, and WQ classification.			Volume II, Water Resource and Wetlands Technical Report Appendix A; Volume III-B, 100k Map Series: Water Resources
		18) Assessment of impacts to surface and ground water resources			Volume I-A, Section 4.3.3, Water Resources and Wetlands; Volume II, Water Resources Technical Report
		Impacts to water users			Volume I-A, Section 4.3.3, Water Resources and Wetlands; Volume II, Water Resources Technical Report, pg. 29a.
		Impacts to hydrology and stream banks			Volume I-A, Section 4.3.3, Water Resources and Wetlands; Volume II, Water Resources Technical Report
		Impacts to municipal watersheds			Volume I-A, Water Resource and Wetlands Technical Report, pgs. 28-29.
		Supplies of potable water, and streams listed by the department pursuant to 75-5-702, MCA that are not attaining designated beneficial uses of water.			Volume II, Water Resource and Wetlands Technical Report, section 4.3.4.1 (potable water), pg. 29a, and Appendix A (stream listing).
		19) Noise, radio, and television impacts			
		a. A description of present noise conditions at residences within 1000			Volume I-A, Section 4.11, EMF, Audible Noise, Corona, and Radio/TV Interference
		b. Railroad communications (alignments of not closely parallel railroads)			Volume I-A, Section 4.11, EMF, Audible Noise, Corona, and Radio/TV Interference
		c. Induced currents			Volume I-A, Section 4.11, EMF, Audible Noise, Corona, and Radio/TV Interference
		d. Noise impacts			Volume I-A, Section 4.11, EMF, Audible Noise, Corona, and Radio/TV Interference
		e. An assessment of the potential impacts of the electrical and magnetic fields generated by the facility			Volume I-A, Section 4.11, EMF, Audible Noise, Corona, and Radio/TV Interference
		f. Radio and television impacts			Volume I-A, Section 4.11, EMF, Audible Noise, Corona, and Radio/TV Interference

ARM/Circular MFSA-2 Number	Rule identifier	Generalized rule content	Complete	Incomplete	Location within MSTI MFSA application
		g. A description of mitigation measures if necessary to reduce noise, electric, & magnetic fields, induced currents & interference with communications systems			Volume I-A, Section 4.11, EMF, Audible Noise, Corona, and Radio/TV Interference
		1) a. Summary of the most important impacts of the facility			Volume I-A, Section 2.7.4, Comparison of Alternatives
Circular MFSA-2 Section 3.9	Comparison of alternative locations	b. Avoiding most important impacts			Volume I-C, Appendix B, Environmental Protection Measures, Appendix C, Specifically Recommended Mitigation Measures. Volume II, Technical Reports
		c. Ranking of alternatives from best to worst			Volume I-A, Section 2.7.4, Comparison of Routing Alternatives
		(i) Levelized costs including environmental costs and mitigation costs			Volumes I-A, I-B, Appendix A, Engineering, Cost and Systems Planning Information; Mitigation costs are considered a part of the 20% contingency in the construction cost estimate
		(ii) Reliability			Volume I-A, Table 2-5 (pg. 2-73, 2-73b); Volume I-B, Appendix A-4.
		(iii) Land use considerations			Volume I-A, Section 4.6; Volume II, Land Use Technical Report
		(iv) Socioeconomic			Volume I-A, Section 4.8; Volume II, Socioeconomics Technical Report
		(v) Earth resources			Volume I-A, Section 4.4; Volume II, Geology and Soils Technical Report
		(vi) Engineering considerations			Volume I-A, Table 2-5 (pg. 2-73, 2-73b), Section 2.5, Construction, Operations and Maintenance; Volume I-C, Appendix D.
		(vii) Visual resources			Volume I-A, Section 4.7; Volume II, Visual Resources Technical Report
		(viii) Biological resources			Volume I-A, Section 4.2; Volume II, Biological Resources Technical Report
		(ix) Historic, archaeological, and paleontologic resources			Volume I-A, Sections 4.5, 4.10, ; Volume II, Paleontological Resources Technical Report, Cultural Resources Technical Report
		(x) Recreation			Volume I-A, Section 4.6; Volume II, Land Use Technical Report
		(xi) Water resources			Volume I-A, Section 4.3; Volume II, Water Resources Technical Report
		(xii) Noise, radio, and television interference and electric effects			Volume I-A, Table 2-5 (pg. 2-73, 2-73b), Section 4.11, EMF, Audible Noise, Corona, Radio/TV Interference.

ARM/Circular MFSA-2 Number	Rule identifier	Generalized rule content	Complete	Incomplete	Location within MSTI MFSA application
		(xiii) Any other categories important to the applicant			Volume I-A
		d. A comparative ranking of alternative facility locations from best to worst with an indication of the magnitude of the differences between facility locations			Volume I-A, Table 2-5 (pg. 2-73, 2-73b), Section 2.7.4, Comparison of Routing Alternatives.
		1) Selection of applicant's preferred alternative			Volume I-A, Section 2.7.5, Identification of Preferred Route
Circular MFSA-2 Section 3.10	Selection of preferred location	a. The applicant's selective criteria and how they were applied			Volume I-A, Section 2.7.4, Comparison of Routing Alternatives, Section 2.7.5, Identification of Preferred Route
		b. An explanation of how the preferred location criteria listed in 3.1(1) or 3.1(2) were applied			Volume I-A, Section 2.7.4, Comparison of Routing Alternatives, Section 2.7.5, Identification of Preferred Route
		c. Discussion of relative importance of categories in 3.9(3)			Volume I-A, Section 2.7.4, Comparison of Routing Alternatives, Section 2.7.5, Identification of Preferred Route
		d. An explanation of how areas listed in 3.2(1)(d)(i) - (iii) were considered			Volume I-A, Section 2.7.4, Comparison of Routing Alternatives, Section 2.7.5, Identification of Preferred Route
		e. An explanation of how areas listed in Section 3.2(1)(d)(iv) through (f) and Section 3.4(1) through (3) were considered in selecting the preferred location			Volume I-A, Section 2.7.4, Comparison of Routing Alternatives, Section 2.7.5, Identification of Preferred Route
		1) Engineering description			Volume I-A, Section 2.3.2.1, Transmission Line Specifications
17.20.1509		2) Reports showing adequacy of design			Volume I-B, Appendix A, Engineering, Cost, and System Planning Information
		3) Design elements to reduce impacts			Volume I-C, Appendix B, Environmental Protection Measures, Appendix C, Specifically Recommended Mitigation Measures. Volume II, Technical Reports
		4) Design			Volume I-A, Section 2.3.2.1, Transmission Line Specifications
		5) Design peak voltage and amperage for expected climatic conditions			Volume I-A, Section 2.3.2.1, Transmission Line Specifications; Table 2-1, Electrical Design Characteristics

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		6) Radio and television interference and EMF			Volume I-A, Section 4.11, EMF, Audible Noise, Corona, Radio/TV Interference
		7) Statement design will meet NESC			Volume I-A, Section 2.3.2, Proposed Action, page 2-9
		8) Applies to Pipelines			Not Applicable
		9) Applies to Pipelines			Not Applicable
		10) Applies to Pipelines			Not Applicable
		11) Communication facilities			Volume I-A, Section 2.3.2.1, Transmission Line Specifications - Communications (Radio, SCADA, Microwave, and Fiber Optic)
		12) Paralleling or showing utility or transportation ROWs and why paralleling was not chosen			Volume I-A, Section 2.7.4, Comparison of Routing Alternatives
		1) Preliminary schedule			Volume I-A, Section 2.5, Construction, Operations and Maintenance, Subsection Transmission Line Construction Schedule and Workforce
17.20.1510		2) Construction disturbance			Volume I-A, Table 2-1, Electrical Design Characteristic, Section 2.5, Subsection Access Road Construction; I-C, Appendix D, Construction and Ground Disturbance Assumptions
		3) Road description			Volume I-A, Section 2.5, Construction, Operations and Maintenance, Subsection Access Road Construction
		4) Min and max ROW			Volume I-A, Section 2.4 ROW Acquisition, Section 2.5.1.2, Operations, Maintenance and Abandonment
		5) Construction camps			No camps are planned for construction crews
		6) Reclamation methods			Volume I-A, Section 2.5, Subsection Site Reclamation
		7) Fire control			Volume I-A, Section 2.5, Subsection Fire Protection
		1) Operation and maintenance procedures under normal and emergency conditions.			Volume I-A, Section 2.5.1.2, Operation, Maintenance, and Abandonment
17.20.1512		Complaints from nearby residents for radio and television interference.			Volume I-A, Section 4.11, EMF, Audible Noise, Corona, Radio/TV Interference; I-C, Appendix G, Public and Agency Scoping Summary Report;

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		2) Ability to withstand mass movement, earthquakes, floods, high winds, accidents.			Volume I-A, Section 2.3.2.1, Subsection Transmission Line Specification; Section 4.4; Volume II, Geology and Soils Technical Report
		3) Land use controls, encroachment of buildings.			Volume I-A, pgs. 2-35a and 2-47, Section 2.5.1.2, Subsection Permitted Uses and Safety and Grounding.
		4) ROW vegetation, tree, & weed control methods; herbicide & trimming of vegetation control.			Volume I-A, pgs. 2-35a, 2-36, 2-40a, 2-40b (Vegetation Management Plan) and 2-47, Section 2.5 Subsection Control of Noxious Weed and Invasive Plants.